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| APPLICATION NO | . F | ILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------|-----------------------|--------------|----------------------|---------------------|------------------|
| 10/047,578 | 10/047,578 10/26/2001 | | Jeffrey S. Kiel | KIEL / 02 4696 | |
| 26875 | 7590 | 05/04/2005 | | EXAMINER | |
| WOOD, I 2700 CAR | | & EVANS, LLP | KWON, BRIAN YONG S | | |
| 441 VINE | | .K | | ART UNIT | PAPER NUMBER |
| CINCINN | ATI, OH | 45202 | 1614 | - | |

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | T | <u> </u> | | | | | |
|---|---|---------------------------------------|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | | |
| | 10/047,578 | KIEL ET AL. | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | |
| | Brian S. Kwon | 1614 | | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | |
| Status | | : | | | | | |
| 1) Responsive to communication(s) filed on 7/22/ | 1) Responsive to communication(s) filed on 7/22/04. | | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ This | This action is FINAL . 2b)⊠ This action is non-final. | | | | | | |
| 3) Since this application is in condition for allowar | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 53 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | | |
| 4)⊠ Claim(s) <u>1-21,31-48 and 53</u> is/are pending in the application. | | | | | | | |
| 4a) Of the above claim(s) is/are withdraw | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) <u>1-21,31-48 and 53</u> is/are rejected. | | | | | | | |
| | | | | | | | |
| 8) Claim(s) are subject to restriction and/or | r election requirement. | | | | | | |
| Application Papers | | | | | | | |
| 9)☐ The specification is objected to by the Examiner. | | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction | | • • | | | | | |
| 11)☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| 222 and accounted Canada doctors for a not of the doctained doping flot foodivous. | | | | | | | |
| Attachment(s) | | | | | | | |
| Notice of References Cited (PTO-892) | 4) Interview Summary | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | Paper No(s)/Mail Da 5) Notice of Informal P | ate atent Application (PTO-152) | | | | | |
| Paper No(s)/Mail Date | 6) Other: | · · · · · · · · · · · · · · · · · · · | | | | | |
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DETAILED ACTION

Status of Application

I. Acknowledgement is made of applicants' filing of the instant application as a Request for Continued Examination (RCE) under 37 CFR 1.1114. Claims 1-21, 31-48 and 53 are currently pending for prosecution on the merits.

New Matter

2. The amendment filed July 22, 2004 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "being present as a plurality of dosage forms" Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 1-21, 31-48 and 53 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

With respect to the "being present as a plurality of dosage forms",

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The amendment filed July 22, 2004 requires that phenylephreine and pyrilamine as active pharmaceutical ingredients are present as a plurality of dosage forms, where each of said dosage forms including an amount of said active pharmaceutical ingredients, said amount being generally uniform in each of said dosage forms, when compared one to another.

The specification discloses that the pharmaceutical composition of the present invention is prepared in a single dosage form, wherein said single dosage forms include suspension and tablets (page 4, lines 4-9). Reading the entire specification, those skilled in the art would have understood that tannate salts of pyrilamine and phenylephrine is prepared in a single dosage form, not plurality of dosage form. The instantly claimed plurality of dosage forms includes a possibility that each of phenylephrine and pyrilamine is present in different dosage forms, for example phenylephrine in tablet and pyrilamine in suspension respectively. Clearly, there is no support in the specification that said tannate salts of pyrilamine and phenylephrine is being present in multiple dosage forms in said composition.

With the exception of "single dosage form", the skilled artisan cannot envision that tannate salts of phenyephrine and pyrilamine are present in said composition as a plurality of dosage form. Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method for isolating it. See <u>Fiers v. Revel</u>, 25 USPQ2d 1601, 1606 (CAFC 1993) and <u>Amgen Inc. V. Chugai pharmaceutical Co. Ltd.</u>, 18 USPQ2d 1016. In <u>Fiddes v. Baird</u>, 30 USPQ2d 1481, 1483, claims directed to mammalian FGF's were found unpatentable due to lack of written description for the broad class. The specification provided only the bovine sequence.

<u>Vas-Cath Inc. Mahurkar</u>, 19 USPQ2d 1111, makes clear the "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See <u>Vas-Cath</u> at page 1116).

Finally, <u>University of California v. Eli Lilly and Co.</u>, 43 USPQ2d 1398, 1404, 1405 held that:

...To fulfill the written description requirement, a patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention." Lockwood v. American Airlines, Inc., 107 F. 3d 1565, 1572, 41 USPQ2d 1961, 1966(1997); In re Gosteli, 872 F. 2d 1008, 1012, 10 USPQ2d 1614, 1618 (Fed. Cir. 1989) ("[T]he description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed.") Thus, an applicant complies with the written description requirement "by describing the invention, with all its claimed limitations, not that which makes it obvious," and by using "such descriptive means as words, structures, figures, diagrams, formulas, etc., that set forth the claimed invention." Lockwood, 107 F.3d at 1572, 41 USPQ2d at 1966.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "said amount being generally uniform in each of said dosage forms, when compared one to another". It is not clear what is meant by "being generally uniform in each of said dosage forms", and the specification does not define how to ascertain the requisite degree of concentration or amounts of the active ingredients. Furthermore, it is not clear what is being compared with. Applicant is requested to clarify.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1-21, 31-48 and 53 is rejected under 35 USC 103(a) as being unpatentable over Gordiziel (US 6287597) in view of Chopdekar et al. (US 5599846).

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Gordiziel discloses a composition, comprising phenylephrine tannate and chlorpheniramine tannate, benzoic acid, coloring, natural and artificial flavors, glycerin, kaolin, magnesium aluminum silicate, methyl paraben, pectin, purified water, saccharin, sodium hydroxide and sucrose or sorbitol, wherein said composition is prepared in a conventional manner (column 2, lines 51-64 and Example 2). Gordiziel discloses that beside the conventional isopropanol route, antihistamines in the form of their tannate salts can be prepared alternatively in the water route (column 1, line 60 thru column 2, line 6).

Chopdekar discloses an antihistamine tannates (e.g., phenylephrine, pyrilamine, etc...) prepared by water route. Chopdekar teaches or suggests the advantage of preparing antihistamine tannates in water route compared to the conventional isopropanol route, wherein the water route yields about 90-97% of the tannate salts products and about 90-98% of the product purity compared to only about 70% of the yields and about 85-90% wt % of the purity in the isopropanol route.

As indicated in preceding statement, both the referenced composition (Gordiziel) and the claimed composition (final composition prepared by the claimed steps) are directed to the same composition. However, the teaching of Gordiziel'597 differs from the claimed invention in (i) the specific step of making said composition by the water route, namely step of conversion of the active pharmaceutical ingredients into tannate salts prepared by reacting phenylephrine and pyrilamine in the form of free base with tannic acid in the presence of water and mixing with the known secondary agents to derive at the claimed composition; (ii) the specific amounts (or ratios) of active and/or inactive ingredients in a composition; and (iii) the specific pH of the said composition. To incorporate such teaching into the teaching of Gordiziel, would have been

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obvious in view of Chopdekar who teaches or suggests the advantage of preparing antihistamine tannate in water route.

One having ordinary skill in the art would have been motivated to prepare the claimed composition by the water route such that the yield and the purity of antihistamine (pyrilamine and phenylephirne) tannates would be greatly increased. Although the prior art references in combination do not specifically disclose the claimed order (or step) of preparing said composition, such determination of order of performing step is prima facie obvious in the absence of new or unexpected results.

The patentability of the product is not dependent upon the manner in which is produced unless the process changes the product. In this situation, both products in the prior art and the instant invention are drawn to the same composition.

Although the instant claims use the different names for the said ingredients than those taught in the cited references, these references are particularly pertinent and relevant because all the claimed species and their roles are well taught in the cited reference. Thus, one would have been motivated to combine these references and make the modification because they are drawn to same technical fields (constituted with same ingredients and share common utilities, and pertinent to the problem which applicant concerns about. MPEP 2141.01(a).

In addition, optimization of amounts (or ratios) of known active and inactive ingredients in a composition or determination of optimum pH is well considered within the skill of the artisan, absent evidence to the contrary.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or

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improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-21, 31-48 and 53 are provisionally rejected under the judicially created doctrine of double patenting over claims 1-21, 31-48 and 53 of copending Application No.10/645977.

This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of the instant invention overlaps with the copending application.

Since the interpretation of the instant claims allow for the inclusion of any other unspecified component(s) in said composition even in major amounts by reciting "comprising", the referenced composition comprising the active pharmaceutical ingrediens phenylephrine, pyrilamine and dextromethorphan makes obvious the instant claimed invention.

With respect to the claims 32-48 of the copending application, the dependent claims fail to further limit the subject matter of a previous claim or base claim, drawn to a composition claim.

The claims 32-48 are interpreted as the composition claims for the examination purpose.

Response to Arguments

7. Applicants' arguments filed July 22, 2004 have been fully considered but they are not persuasive.

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Applicant's argument takes position that the novel process of using a separate dispersion allows for general uniformity of the amounts of active pharmaceutical ingredients within a batch of the present composition, as opposed to the variable levels of active pharmaceutical ingredients which were present in compositions of the prior art. Applicant alleges that since this general uniformity is generated by the particular process of the claimed invention, the differing steps of the present process over that of the prior art provide for differences in the compositions that are formed by the respective process.

Applicant's argument is not found persuasive. The patentability of the product is not dependent upon the manner in which is produced unless the process changes the product. In this situation, both products in the prior art and the instant invention are drawn to the same composition. Therefore, the Examiner maintains that the instant invention is obvious over the cited references in combination (Gordiziel and Chopdekar).

Alternatively, if the Examiner gives a patentable weight on the alleged general uniformity of the amounts of active pharmaceutical ingredients within a batch of the present composition, there is no indication of the specific concentration or purity of active ingredients that distinguished from the prior art in the instant claims. Furthermore, the instant specification fails to provide any data showing the unexpected results of the instant composition compared to the prior art composition. Applicant's mere statement of advantage of the instant composition with "general uniformity" cannot be considered as the proffering evidence to overcome the rejection.

Applicant's argument in the response takes the position that both Gordiziel and

Chopdekar describe the "old" routes of preparation, which Applicant describes in the application

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as forming compositions which vary in the amount of active pharmaceutical ingredient from

batch to batch. Applicants allege that the prior art references in combination only teach a

composition made by the old water route.

Applicant's argument is not found persuasive. As discussed in preceding comments, the

patentability of the product is not dependent upon the manner in which is produced unless the

process changes the product. Although it may be true that its purity of active ingredients in said

composition vary from batch to batch during process of making (according to the Applicant's

allegation), both products in the prior art and the instant invention are drawn to the same

composition. Therefore, the prior art references in combination make obvious the claimed

invention.

Conclusion

8. No Claim is allowed.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian Kwon whose telephone number is (571) 272-0581. The

examiner can normally be reached Tuesday through Friday from 9:00 am to 7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christopher Low, can be reached on (571) 272-0951. The fax number for this Group

is (703) 872-9306.

Any inquiry of a general nature of relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Brian Kwon Patent Examiner

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